

Application No. 10/079,293
Amendment Date June 29, 2003
Reply to Office Action of March 11, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Cancel claim 18.

Amend claims 13, 14, 16, 21, and 22, and add new claims 25-33 as follows:

1. (Previously Cancelled)
2. (Previously Cancelled)
3. (Previously Cancelled)
4. (Previously Cancelled)
5. (Previously Cancelled)
6. (Previously Cancelled)
7. (Previously Cancelled)
8. (Previously Cancelled)

9. (Previously Amended) A cutting element comprising:

D2 a hard material body having an end surface and a periphery defining a circumference, the end surface comprising a canted portion extending to the periphery and an uncanted portion extending to the periphery, wherein the canted portion intersects the periphery along a periphery line, and wherein the periphery line continuously extends around more than half of the circumference; and

an ultra hard material layer formed over the end surface having an exposed upper surface.

10. (Previously Presented) A cutting element as recited in claim 9 wherein the entire periphery line extends along a plane.

11. (Previously Presented) A cutting element as recited in claim 9 wherein the canted portion comprises a non-planar portion.

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12. (Previously Presented) A cutting element as recited in claim 9 wherein the periphery line is non-linear.

13. (Currently Amended) A cutting element as recited in claim 9 wherein the uncanted portion is [non-planar] non-uniform.

14. (Currently Amended) A cutting element as recited in claim 13 wherein the uncanted portion comprises a [non-planar] non-uniform portion.

15. (Previously Presented) A cutting element as recited in claim 9 wherein the ultra hard material layer comprises an exposed upper surface.

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See p. 7
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16. (Currently Amended) A cutting element comprising:
a hard material body having an end surface bounded by a periphery defining a circumference, the end surface comprising, [a non-planar portion,] a canted portion extending to the periphery, and an uncanted portion extending to the periphery, [wherein the canted portion comprises a non-planar portion,] wherein the canted portion intersects the periphery along a periphery line, and wherein the entire periphery line extends along a plane ; and

an ultra hard material layer formed over the end surface.

17. (Previously Amended) A cutting element as recited in claim 16 wherein the periphery line continuously extends around more than half of the circumference.

18. (Cancelled)

D3
19. (Previously Presented) A cutting element as recited in claim 16 wherein the periphery line is non-linear.

20. (Previously Presented) A cutting element as recited in claim 16 wherein the ultra hard material layer comprises an exposed upper surface.

21. (Currently Amended) A cutting element as recited in claim 16 wherein the [non-planar] non-uniform portion is formed on the canted portion.

D3 22. (Currently Amended) A cutting element as recited in claim 16 wherein [the non-planar] a non-uniform portion [is formed on the uncanted portion].

23. (Previously Presented) A cutting element as recited in claim 9 wherein the body comprises a first axial length as measured from the canted portion and a second axial length as measured from the uncanted portion, wherein the first axial length is smaller than the second axial length.

24. (Previously Presented) A cutting element as recited in claim 16 wherein the body comprises a first axial length as measured from the canted portion and a second axial length as measured from the uncanted portion, wherein the first axial length is smaller than the second axial length.

D4 25. (New) A cutting element as recited in claim 9 wherein the uncanted portion comprises a non-uniform portion.

26. (New) A cutting element comprising:
a hard material body having an end surface bounded by a periphery defining a circumference, the end surface comprising, a canted portion extending to the periphery, and an uncanted portion extending to the periphery, wherein the canted portion intersects the periphery along

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a periphery line, and wherein the periphery line continuously extends around more than half of the circumference; and
an ultra hard material layer formed over the end surface.

27. (New) A cutting element comprising:

a hard material body having an end surface bounded by a periphery defining a circumference, the end surface comprising, a canted portion extending to the periphery, and an uncanted portion comprising a non-uniform portion, said uncanted portion extending to the periphery, wherein the canted portion intersects the periphery along a periphery line; and

an ultra hard material layer formed over the end surface.

D4 28. (New) A cutting element comprising:

a hard material body having an end surface bounded by a periphery defining a circumference, the end surface comprising, a canted portion extending to the periphery, and an uncanted portion extending to the periphery, wherein the canted portion intersects the periphery along a periphery line said periphery line extending along a plane, wherein at least part of one of said canted and uncanted portions comprises a non-uniform portion; and

an ultra hard material layer formed over the end surface.

29. (New) A cutting element comprising:

a hard material body having an end surface and a periphery defining a circumference, the end surface comprising a canted portion extending to the periphery and an uncanted portion extending to the periphery, wherein the entire canted portion extending to the periphery intersects the periphery along a single periphery line extending along a plane, and wherein the periphery line continuously extends around more than half of the circumference; and

an ultra hard material layer formed over the end surface having an exposed upper surface.

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30. (New) A cutting element as recited in claim 29 wherein the uncanted portion comprises a non-uniform portion.

31. (New) A cutting element as recited in claim 29 wherein the uncanted portion is non-uniform.

D4 32. (New) A cutting element as recited in claim 29 wherein the uncanted portion comprises a non-uniform portion.

33. (New) A cutting element as recited in claim 32 wherein the uncanted portion is non-uniform.
